



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-253599
Lot Number: SAMPLE
Product Name: Sodium tetrathionate dihydrate
CAS Number: 13721-29-4
Molecular Formula: $\text{Na}_2\text{S}_4\text{O}_6 \cdot 2\text{H}_2\text{O}$
Molecular Weight: 306.27

| Test | Specification | Result |
|----------------------------------|---------------------------------------|-------------------|
| Appearance | Colorless or white powder | White powder |
| Purity (Titration, Ion Exchange) | 99.0 - 101.0% | 100.8% |
| Residue | No residue (filter test) | Complies |
| Solution (Color) | Clear colorless in water (0.1 M) | Complies |
| Trace metal analysis | Consistent with requirements | Complies |
| Wavelength | Absorption 311 nm cut-off 0.1 M water | 311.5 nm |
| Aluminum | ≤ 5 mg/kg (ICP) | < 5 mg/kg (ICP) |
| Arsenic | ≤ 0.1 mg/kg (MHS-AAS) | < 0.05 mg/kg |
| Barium | ≤ 5 mg/kg (ICP) | < 5 mg/kg (ICP) |
| Bismuth | ≤ 5 mg/kg (ICP) | < 5 mg/kg (ICP) |
| Cadmium | ≤ 5 mg/kg (ICP) | < 5 mg/kg (ICP) |
| Calcium (ICP) | ≤ 50 mg/kg | < 50 mg/kg |
| Chromium | ≤ 5 mg/kg (ICP) | < 5 mg/kg (ICP) |
| Cobalt | ≤ 5 mg/kg (ICP) | < 5 mg/kg (ICP) |
| Copper | ≤ 5 mg/kg (ICP) | < 5 mg/kg (ICP) |
| Iron (ICP) | ≤ 5 mg/kg | < 5 mg/kg |
| Lead (ICP) | ≤ 5 mg/kg | < 5 mg/kg |
| Lithium | ≤ 5 mg/kg (ICP) | < 5 mg/kg (ICP) |
| Magnesium | ≤ 5 mg/kg (ICP) | < 5 mg/kg (ICP) |

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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| | | |
|-----------------|--|-----------------|
| Manganese | ≤ 5 mg/kg (ICP) | < 5 mg/kg (ICP) |
| Molybdenum | ≤ 5 mg/kg (ICP) | < 5 mg/kg (ICP) |
| Nickel | ≤ 5 mg/kg (ICP) | < 5 mg/kg (ICP) |
| Potassium (ICP) | ≤ 50 mg/kg | < 50 mg/kg |
| Strontium | ≤ 5 mg/kg (ICP) | < 5 mg/kg (ICP) |
| Sulfate | ≤ 500 mg/kg (thiosulfate S ₂ O ₃) | < 500 mg/kg |
| Water Content | 10.5 - 12.5% | 11.8% |
| Zinc | ≤ 5 mg/kg (ICP) | < 5 mg/kg (ICP) |

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